

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : **2001-178460**

(43)Date of publication of application : **03.07.2001**

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(51)Int.Cl.

C12N 15/00  
C12N 11/08  
C12Q 1/68  
G01N 33/53  
G01N 33/547  
G01N 33/566

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(21)Application number : **11-371332**

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(22)Date of filing : **27.12.1999**

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### **(54) METHOD FOR IMMOBILIZING DNA FRAGMENT TO SURFACE OF SOLID- PHASE CARRIER AND DNA CHIP**

(57)Abstract:

PROBLEM TO BE SOLVED: To develop an immobilization method capable of bonding a DNA fragment separately prepared beforehand to the surface of a solid-phase carrier by a rapid reaction and making the reaction product stably maintain the bond and to obtain a DNA chip not especially requiring a blocking process.

SOLUTION: This method for immobilizing the DNA fragment to the surface of solid-phase carrier is characterized in that an aqueous liquid containing a DNA fragment containing an amino group at a terminal end is dotted and adhered to a solid-phase carrier supporting a polymer having a cyclic acid anhydride structure on the surface or a solid-phase carrier supporting a polymer comprising a carboxyl group-containing monomer as a constituent component on the surface is made into a cyclic acid anhydride by a dehydrating agent and the aqueous liquid containing the DNA fragment containing the amino group at the terminal end is dotted and adhered to the solid-phase carrier. This DNA fragment is obtained by the method. This method for detecting a nucleic acid fragment having complementarity to the DNA fragment on the DNA chip uses the DNA chip.

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LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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